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STIMULATED BRILLOUIN SCATTER IN PIC-FLUID SIMULATIONS.*

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BZOHAR studies of Stimulated Brillouin Scatter (SBS) in plasma parameter regimes appropriate to NOVA and planned NIF experiments are reported. We compare results from electromagnetic simulations to those with an imposed ponderomotive driver. In the latter simulations we more readily isolate and diagnose those effects associated with nonlinearities in the ion waves which contribute to the saturation of SBS and the resulting SBS reflectivity in the electromagnetic cases.

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